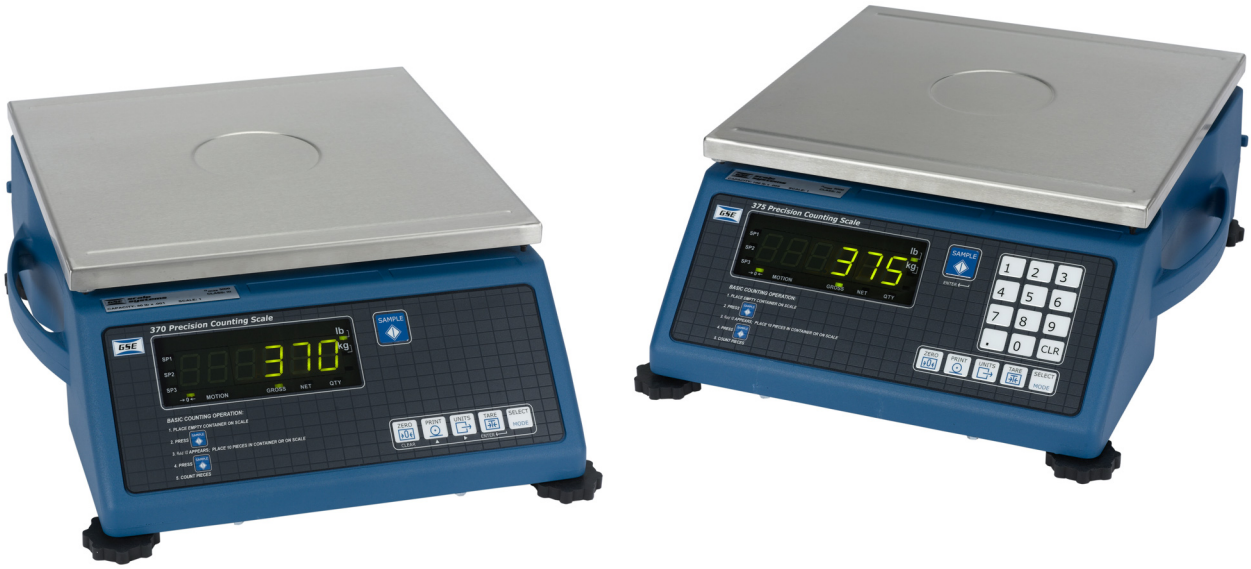
A member of the
Avery Weigh-Tronix Group

Model 370 and Model 375

Precision Counting Scales



User Instructions

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1 General information and warnings

1.1 About this Manual

This manual is divided into chapters by the chapter number and the large text at the top of a page. Subsections are labeled as shown by the 1 and 1.1 headings shown above. The names of the chapter and the next subsection level appear at the top of alternating pages of the manual to remind you of where you are in the manual. The manual name and page numbers appear at the bottom of the pages.

1.1.1 Text Conventions

Keystrokes are shown in brackets e.g. [PRINT] and reflect the case of the key being described. This applies to the keys on the front keypad.

Displayed messages appear in *italic* type and reflect the case of the displayed message.

1.1.2 Special Messages

Examples of special messages you will see in this manual are defined below. The signal words have specific meanings to alert you to additional information or the relative level of hazard.

ELECTRICAL WARNING!
THIS IS AN ELECTRICAL WARNING SYMBOL.
ELECTRICAL WARNINGS MEAN THAT FAILURE TO FOLLOW SPECIFIC PRACTICES OR PROCEDURES MAY RESULT IN ELECTROCUTION, ARC BURNS, EXPLOSIONS OR OTHER HAZARDS THAT MAY CAUSE INJURY OR DEATH.

CAUTION!
This is a Caution symbol.
Cautions give information about procedures that, if not observed, could result in damage to equipment or corruption to and loss of data.

NOTE: This is a Note symbol. Notes give additional and important information, hints and tips that help you to use your product.

1.2 Electrical Installation

CAUTION: The power cable must be connected to an earth-grounded electrical outlet. The electrical supply must have a circuit breaker with an appropriate rating to protect from over-current conditions.

Do not use the Model 370 or Model 375 in outdoor conditions!

IF IN DOUBT SEEK ADVICE FROM A QUALIFIED ELECTRICIAN.

1.2.1 Pluggable Equipment

Pluggable equipment must be installed near an easily accessible socket outlet.

1.2.2 Permanently Wired Equipment - Isolator Requirements

Permanently connected equipment must have a readily accessible disconnect device incorporated in the fixed wiring such as an isolator or circuit breaker with at least 3mm contact separation.

The isolator **MUST NOT** be installed into the flexible power cable supplied with the unit.

1.2.3 Safe Handling of Equipment with Batteries

CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

ATTENTION: Il y a danger d'explosion s'il y a remplacement incorrect de la batterie, remplacer uniquement avec une batterie du même type ou d'un type équivalent recommandé par le constructeur. Mettre au rebut les batteries usagées conformément aux instructions du fabricant.

1.2.4 Wet Conditions

The Model 370 and Model 375 are not washdown units. Do not install near water!

1.3 Routine Maintenance

IMPORTANT: This equipment must be routinely checked for proper operation and calibration.
Application and usage will determine the frequency of calibration required for safe operation.

Always turn off the machine and isolate from the power supply before starting any routine maintenance to avoid the possibility of electric shock.

Make sure that it is placed securely on a flat and level surface.

1.4 Cleaning the Machine

Table 1.1 Cleaning DOs and DON'Ts

DO	DO NOT
Wipe down the outside of standard products with a clean cloth, moistened with water and a small amount of mild detergent	Attempt to clean the inside of the machine
	Use harsh abrasives, solvents, scouring cleaners or alkaline cleaning solutions
Spray the cloth when using a proprietary cleaning fluid	Spray any liquid directly on to the display windows

1.5 Training

Do not attempt to operate or complete any procedure on a machine unless you have received the appropriate training or read the instruction books.

To avoid the risk of RSI (Repetitive Strain Injury), place the machine on a surface which is ergonomically satisfactory to the user. Take frequent breaks during prolonged usage.

1.6 Sharp Objects

Do not use sharp objects such as screwdrivers or long fingernails to operate the keys.

1.7 Installation

DANGER: RISK OF ELECTRICAL SHOCK. NO USER SERVICEABLE PARTS. REFER TO QUALIFIED SERVICE PERSONNEL FOR SERVICE.

1.8 FCC and EMC Declarations of Compliance

United States

Table 1.2

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Canada

Table 1.3

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.
Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la Classe A prescrites dans le Règlement sur le brouillage radioélectrique edicté par le ministère des Communications du Canada.

European Countries

Table 1.4

WARNING: This is a Class A product. In a domestic environment, this product may cause radio interference in which the user may be required to take adequate measures.

2 Introduction

This section describes the components of the Model 370/375 such as the keypad, enclosure and display. Load cell and communication port wiring is also included.

2.1 Enclosure

The enclosure is made of die cast aluminum with rib enforcement that includes built in carrying handles and a line cord wrap for ease of portability. This design provides extra strength and durability. The enclosure is painted with powder coat and the counting surface is stainless steel.

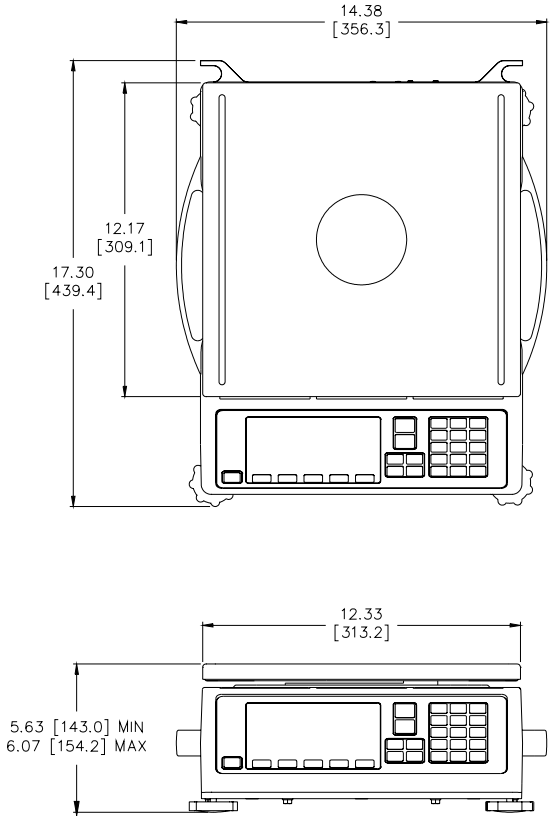


Figure 2.1 Model 370 and Model 375 Enclosure Dimensions

2.2 Keypad

All of the keys perform different functions. Some keys have more than one function.

2.2.1 Model 370

The Model 370 offers a 6-button durable and versatile polymeric switch plate with large keys for ease of use. The keypad is easily cleaned with a damp cloth or non-abrasive cleaner. Each key is assigned two distinct functions as well as a secondary function allowing an operator to enter target values or perform piece samples. Various key combinations are also used.

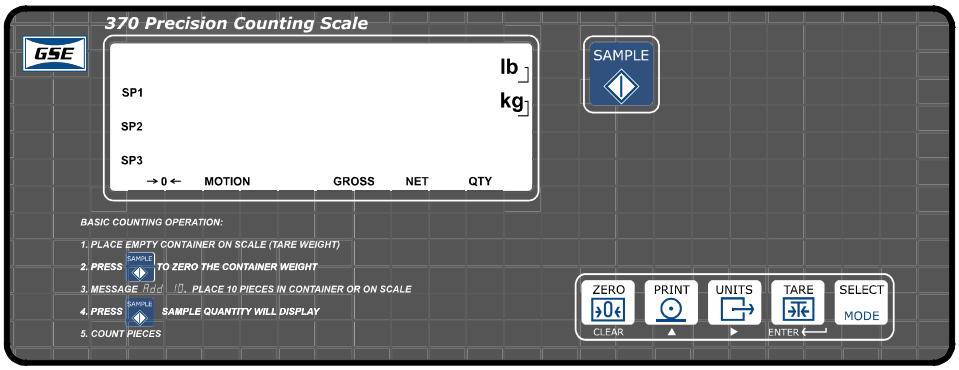


Figure 2.2 Model 370 Keypad

Key Press	Weigh Mode	Count Mode
ZERO →0←	Performs a gross zero function and/or clears an entry in progress.	Performs a quantity zero function and/or clears an entry in progress.
PRINT	Performs a print function and/or 'scrolls' through digits during setpoint entry.	Performs a print function and/or 'scrolls' through digits during setpoint entry.
UNITS	Toggles between 'lb', 'kg' third unit (if enabled) and/or advances cursor to next entry position.	Toggles through standard sample sizes during a sample and/or begins a new sample entry.
TARE →T←	Performs an auto-tare function (if enabled) and/or accepts an entry in progress.	Performs an auto-tare function and/or accepts an entry in progress.
SELECT MODE	Toggles between display modes and/or restores power to the Model 370/375 (if auto-shutoff enabled).	Toggles between display modes and/or restores power to the Model 370/375 (if auto-shutoff enabled) and/or toggles through standard sample sizes during a sample.
SAMPLE	Goes to the count mode	Performs a sample for an accurate part count and calculates an average piece weight.
ZERO + SELECT MODE	Break out of remote display mode.	Break out of remote display mode.
UNITS + SELECT MODE	Enter a value	Enter Average Piece Weight
ZERO + TARE	Clears an entry in progress and/or clears the value of a parameter.	No function.
ZERO + PRINT	Backspace - erases the right-most digit during data entry.	Backspace - erases the right-most digit during sample entry.
PRINT + SELECT MODE	Extended gross.	Extended gross.
PRINT + UNITS	Reverse character scroll during data entry.	Reverse character scroll during sample entry.

2.2.2 Model 375

The Model 375 offers an 18-button durable and versatile polymeric switch plate with large keys for ease of use. The keypad is easily cleaned with a damp cloth or non-abrasive cleaner. The number keys make entering a tare value or average piece weight easier. Each key is assigned at least one distinct function.

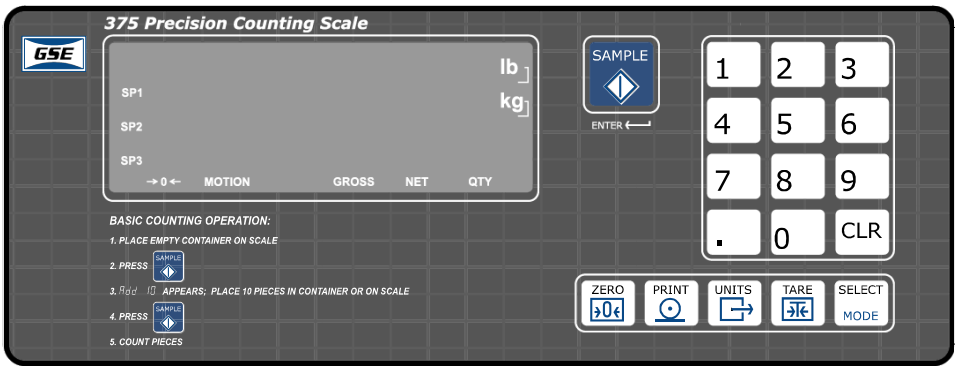


Figure 2.3 Model 375 Keypad

Key Press	Weigh Mode	Count Mode
ZERO →0←	Performs a gross zero function and/or clears an entry in progress.	Performs a quantity zero function and/or clears an entry in progress.
PRINT	Performs a print function and/or 'scrolls' through digits during setpoint or time/date entry.	Performs a print function.
UNITS	Toggles between 'lb', 'kg' or third unit (if enabled).	Toggles through standard sample sizes.
TARE →T←	Performs an auto-tare function (if enabled).	Performs an auto-tare function and requests a piece sample and/or accepts an entry in progress.
SELECT MODE	Toggles between display modes and/or restores power to the Model 370/375 (if auto-shutoff enabled).	Toggles between display modes and/or restores power to the Model 370/375 (if auto-shutoff enabled) and/or toggles through standard sample sizes during a sample.
SPACE 0 — WXYZ 9	Numeric keys used to manually enter a value for tare weight or target value.	Numeric keys used to manually enter a value for tare weight, average piece weight, sample size etc.
CLR NO	Absolute clear - clears an entry in progress and/ or clears the value of a parameter.	Clears any entry in progress or abort a sample.
SAMPLE	Enters the counting mode and/or accepts an entry in progress.	Performs a sample for an accurate part count and calculates an average piece weight and/or accepts an entry in progress.
ZERO →0← + SELECT MODE	Break out of remote display mode.	Break out of remote display mode.

2.3 Display

The Model 370 and Model 375 come standard with a six digit, 7-segment bright green LED display. The Model 370 and Model 375 will display alphanumeric data, but due to the nature of 7-segment LED and the limitation of six digits, some information is abbreviated.

The display also has 11 annunciators to show weight and status information. The SP1, SP2, and SP3 annunciators are red, green, and yellow and are typically used for checkweigh status indication.

A third unit annunicator is also available and is located under kg. Place the third unit label above the third annunciator (refer to Figure 2.4).

All segments and annunciators are illuminated for a brief display test upon power up. The current gross weight is then displayed in default units.

Refer to table below for an explanation of each annunciator.

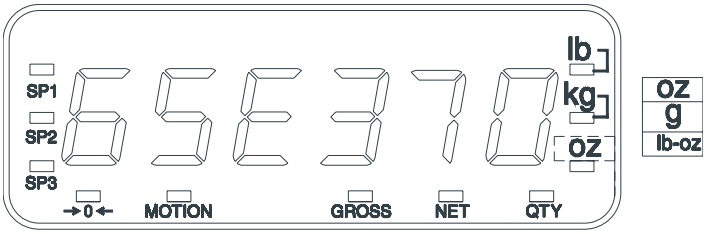


Figure 2.4 Model 370 and Model 375 LED Display

2.3.1 Annunciators

Annunciators provide mode and status information. When illuminated, they indicate the following conditions:

Annunciator	Description
SP1	Setpoint #1 activated (relay 1 closed)
SP2	Setpoint #2 activated (relay 2 closed)
SP3	Setpoint #3 activated (relay 3 closed)
→0←	Displayed weight is at center-of-zero (¼ display graduation)
MOTION	Scale is in motion. Motion inhibited transmits and motion inhibited setpoint activation will be delayed until motion ceases
GROSS	Displayed value represents the current gross weight
NET	Displayed value represents the current net weight
QTY	Displayed value represents the current piece quantity (Count)
lb	The displayed value is represented in pounds
kg	The displayed value is represented in kilograms
oz, g, lb oz	The displayed value is represented in either ounces, pound ounces or grams

2.4 Rear Panel Connections

On the rear of the Model 370 and Model 375 provides access to connections for the power supply, communication port, battery switch and option ports.

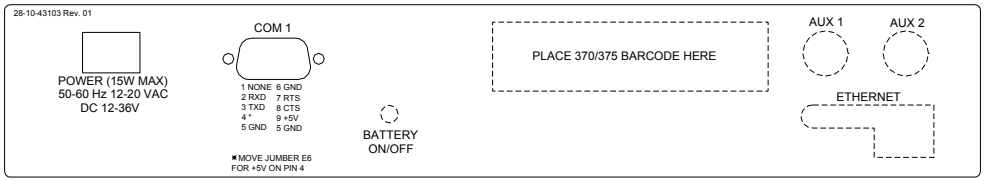


Figure 2.5 Rear Panel Overlay

2.4.1 Communication Port

Comm1 is standard with the Model 370/375. Connector pin outs for Comm 1 (DB9) are provided in Table 2.1 below.

Table 2.1 Communication Port Pin -Out

Pin Designation	Description	Remote Display
1	No connection	
2	RXD	√
3	TXD	√
4	VCC (+ 5V)	
5	Ground / ISO Ground	√
6	Ground	
7	RTS	
8	CTS	
9	VCC (+ 5V)	

2.4.2 Remote Display Connection

It is possible to connect a Model 370/375 to a 300 Series or 60 Series indicator and have the remote indicator display a copy of the 370/375 display.

There are several different configurations for master to remote (slave) indicator connection and setup. A qualified Avery Weigh-Tronix distributor will be able to configure the Model 370/375 for remote display operation. Refer to Table 2.1 for comm port connections.

2.4.3 RS-485 Connections

The module converts the standard RS-232 communication on comm port 1 to RS-485. However the advantage of using the RS-485 module, aside from the ability to transmit over long distances, is the ability to network multiple indicators or parts counters using the same communication wires. When networking indicators or parts counter, it is necessary to set up a network address for each scale. A qualified Avery Weigh-Tronix distributor will be able to configure the Model 370/375 for RS-485 operation

The Model 370/375 will be connected to a peripheral via the DB 9 connector on comm port 1. Refer to Table 2.2 for wiring connections.

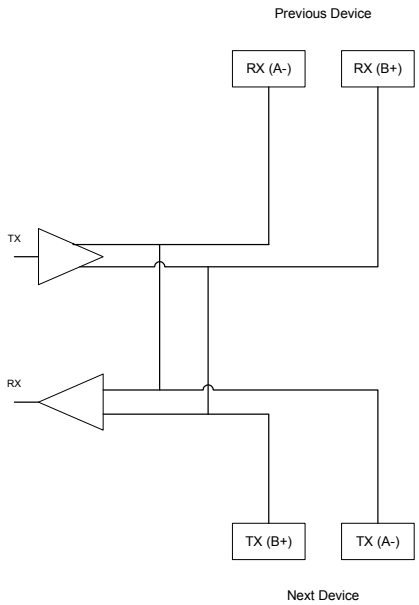
Table 2.2 RS-485 Comm Port 1 Connections

Comm port 1 pin out	Connection
1	No connection
2	TX (B+)
3	TX (A-)
4	VCC
5	ISO ground
6	Ground
7	RX (A-)
8	RX (B+)
9	VCC

Half Duplex

Installing jumpers 1, 2 and 4 on the RS-485 option board electrically connects pin RX B(+) to pin TX B(+), and pin RX A(-) to pin TX A(-) on the option board. This effectively provides two + and two - pin connections, enabling easy connection of network lines in parallel from device to device without having to position two wires into the same lever socket. A B(+) line from each device on the network should be connected in parallel to the next device on the network. This is also true for all A(-) lines.

The units inside the two end-points of the network loop will utilize both A(-) pin connections and both B(+) pin connections. The units at the end-points of the network will utilize only one A(-) pin connection and one B(+) pin connection.

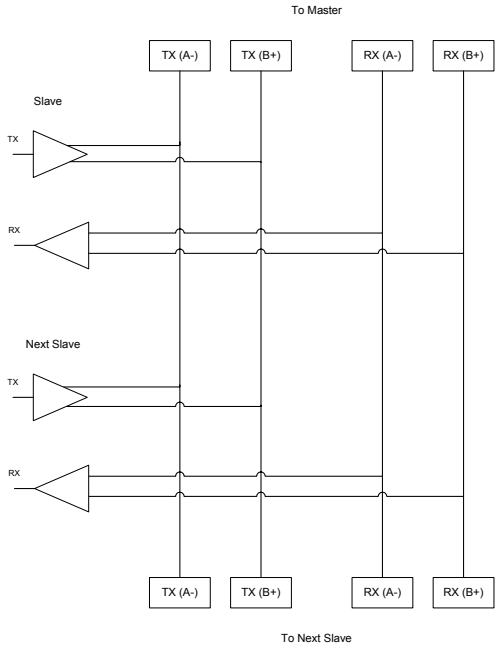


Full Duplex

Removing jumpers 1, 2 and 4 on the RS-485 option board requires that the transmit and receive lines be wired independently of one another.

The RX B(+) and RX A(-) receive lines must be wired in parallel to the next device's RX B(+) and RX A(-) receive lines and the TX B(+) and TX A (-) transmit lines must be wired in parallel to the next device's TX B(+) and TX A(-) transmit lines.

In order to connect network lines in parallel from device to device it is necessary to position two wires into the same lever socket. This requires that the wire used to build the network be 24 AWG or smaller to allow both wires to fit into the same lever socket.



Both Half and Full Duplex

The network boards on both end-points should install jumper 3 on the RS-485 option board to engage the 120 W termination resistor (R8). The boards between the two end-points should remove jumper 3 on the RS-485 option board.

The isolated ground (ISO GND) should be connected in parallel from unit to unit. A shielded twisted two pair cable is recommended throughout the network.

2.4.4 20 mA Current Loop Connections

This option will convert the comm port 1 to a 20 mA current loop instead of an RS-232. This is a digital communication signal and should not be confused with a 4 to 20-mA (or 0-20 mA), which are analog output signals. The intended use is primarily printers and scoreboard displays.

BI-Directional

Both the transmit output and the receive input of the Model 370/375 are available as 20 mA signals. None of the handshake signals are supported for the 20-mA current loop operation.

Baud

Only baud rates of 9600 baud and less are supported.

Active/Passive

The TX output may be used as an active or passive output from the Model 370/375. Either active or passive is chosen depending upon which terminals are used for the connections. In active mode the Model 370/375 supplies the current. In passive mode, the external device supplies the current. The RX input is available in passive mode only.

Isolation

The input and output are electrically isolated from the main board as well as earth ground and each other, for both passive and active modes of operation. Isolation is a minimum of 1000v.

Max Voltage

Active mode TX current loop provides a driving voltage of 12v. This will allow 20 mA current flow with up to a 600 ohm load. Passive mode will work with an external driving voltage of up to 50v.

Cable

The length for the current loop is 1000 ft. maximum. This is for the entire loop, not from device to device. Example: 1 transmitter and 1 receiver can have a maximum of 500 ft. of 2 conductor cable between them.

Connections

The field connections to the 20 mA circuitry will be made at the 9 pin 'D' connector on the rear of the Model 370/375.

Pin out	Connection
1	No connection
2	RX IN
3	RX Pass
4	VCC
5	TX Active
6	Ground
7	TX OUT
8	TX Pass
9	VCC

Connected Devices

While 20 mA current loops can allow for more than one transmitter and/or receiver, the Model 370/375 and/or option board do not include any address recognition or collision avoidance and/or detection to promote this usage. If the 20-mA loop is intended to be used in this manner, proper planning for these issues is required.

Typical Installations

Model 370/375		External Device	
Passive 20 mA Output	TP	RX+	Active 20 mA Input
	TXO	RX-	
Passive 20 mA Input	RXI	RX+	Active 20 mA Output
	RX	RX-	
Active 20 mA Output	TXO	RX+	Passive 20 mA Input
	TA	RX-	

3 Operation

3.1 Parts Counting

The counting parameter must be enabled before using. Follow the instructions below for sampling and counting parts. A new sample must be performed for each unique part being counted. The indicator will not store the average piece weight.

3.1.1 Model 370

Sample selectable fixed counts

1. Press [SAMPLE] to perform an auto-tare. *Add 10* will be displayed.
2. Press [UNITS] to toggle through sample size choices 5, 10, 20, 50 and 100. When the desired sample size is displayed, go to step 3.
3. Add the pieces to be sampled and press [SAMPLE]. After motion is stabilized, the sampled quantity will be displayed.
4. Continue adding parts to be counted. The display will show the number of parts added.
5. If a different part needs to be counted, go to step 1.

To sample using variable counts

1. Press [SAMPLE] to perform a sample. Add 10 will be displayed.
2. Add pieces and key in the number of pieces being sampled by entering the known sample size. First press the [PRINT] key until the first digit is displayed. Use the [UNITS] key to move to the next digit. Continue using the [PRINT] and [UNITS] keys until the desired sample size is displayed and press [SAMPLE].
3. Continue adding parts to be counted. The display will show the number of parts added.
4. If a different part needs to be counted, go to step 1.

View the average piece weight

1. From the QTY mode, press [SELECT] once. The display will show *APS* and then flash the last sampled average piece weight. This value cannot be altered.

3.1.2 Model 375

To sample using selectable fixed counts from the weigh mode

1. From the weigh mode press [SAMPLE]. *Add 10* will be displayed. If 10 is the desired sample size, go to step 3. Otherwise go to step 2.
2. Press [UNITS] to toggle through sample size choices 5, 10, 20, 50 and 100. When the desired sample size is displayed, go to step 3.

3. Add the pieces to be sampled and press [SAMPLE]. After motion is stabilized, the sampled quantity will be displayed.
4. Continue adding parts to be counted. The display will show the number of parts added.
5. If a different part needs to be counted, go to step 1.

To sample using variable counts

1. Press [SAMPLE] to perform a sample. Add 10 will be displayed.
2. Add pieces and key in the number of pieces being sampled by entering the known sample size. First press the [PRINT] key until the first digit is displayed. Use the [UNITS] key to move to the next digit. Continue using the [PRINT] and [UNITS] keys until the desired sample size is displayed and press [SAMPLE].
3. Continue adding parts to be counted. The display will show the number of parts added.
4. If a different part needs to be counted, go to step 1.

View the average piece weight

1. From the QTY mode, press [SELECT] once. The display will show *APS* and then flash the last sampled average piece weight. This value cannot be altered.

3.2 Entering a Tare Value (Model 370)

If a tare value is known, it is possible to enter that value into the tare register. Follow the steps below.

1. From the gross mode use the [SELECT] key to scroll in the first number.
2. Use the [PRINT] key to scroll in the first number.
3. Press the [UNITS] key to move to the next digit.
4. Repeat steps 2 and 3 until the desired number is showing on the display.
5. Press the [TARE] key to accept the entered tare value.

3.3 Entering a Tare Value (Model 375)

If a tare value is known, it is possible to enter that value into the tare register. Follow the step below.

1. Key in the known tare value with the numeric keys and press [TARE]. The display will access the net mode.

3.4 Set Time & Date

The time and date feature is stored as non-volatile (time/date setting will not be lost when the unit power is reset).

The time and date can be accessed from the weigh mode with the [SELECT] key if the time/date parameter has been enabled. Time and date can be accessed via the communication port by sending 11%s.

3.4.1 Model 370

To enter the time from the Enter~tine~00.00.00 prompt

EXAMPLE: 16.32.41 (4:32:41 P.M.)

1. Press [PRINT] to toggle through the numbers to enter the hour. Hours must be entered as military time.
2. Press [UNITS] once to move the cursor. Press [PRINT] to select the next digit.
3. Press [UNITS] twice to move the decimal point over to separate the hour from the minutes. It is not necessary to enter a 0 before a single digit hour.

To enter the date from the Enter~date~01.01.70 prompt

EXAMPLE: 01.09.11 (January 9, 2011)

1. Press [PRINT] to toggle through the numbers to enter the month.
2. Press [UNITS] twice to move the decimal point over to separate the month from the day. It is not necessary to enter a 0 before a single digit month. If it is a double-digit entry, press [UNITS] once to move the cursor and then [PRINT] to scroll through the digits.
3. Press [PRINT] to toggle through the numbers to enter the day.
4. Press [UNITS] twice to move the decimal point over to separate the day from the year. It is not necessary to enter a 0 before a single digit month. If it is a double-digit entry, press [UNITS] once to move the cursor and then [PRINT] to scroll through the digits.
5. Press [PRINT] to toggle through the numbers to enter the year.
6. Press [UNITS] once to move the cursor and then press [PRINT] to scroll through the digits.
7. Press [TARE] twice to accept the entry.

3.4.2 Model 375

To enter the time from the Enter~tine~00.00.00 prompt

EXAMPLE: 16.32.41 (4:32:41 P.M.)

1. Key in the date in the following format: 16.32.41
2. Press [ENTER] to except the time and move to the weigh mode.

To enter the date from the Enter~date~01.01.70 prompt

EXAMPLE: 01.09.11 (January 9, 2011)

1. Key in the date in the following format: 1.9.11. It is not necessary to enter a 0 before a single digit month.
2. Press [ENTER] to except the date and move to the time entry. Press [ENTER] again to bypass the time entry.

4 Troubleshooting

The Model 370/375 utilizes the following types of error messages: Operational Errors, Hardware Errors, Calibration Errors, Communication Errors, and Miscellaneous Errors.

4.1 Operational Errors

Error Code	Description
Code02	Under Load. Input signal is less than negative full scale. Check load cell wiring.
Code03	Over load input signal is greater than positive full scale. Use same checks as "under load" above.
Funct ~ Disbl	Attempted to perform a function disabled in the Setup Mode.
Code 04	The digits on the display have exceeded the six digit display capacity.
Code 05	Zero attempted beyond the value set.
Code 08	Input signal greatly exceeds the valid range. Check the load cell connection.
Tare ~ Error	Negative tare attempted when disabled.
Tare ~ GT FS	Tare value greater than full scale capacity.
Delay	Indicates that a motion delay is in effect (zero, tare, etc.).
Delay ~ Abort	Acknowledges that a motion delayed function was aborted.
Print ~ Abort	Acknowledges that a motion delayed print request was aborted.
Add ~ Load!	If displayed after performing a count sample, this message indicates that a larger sample size is required.
Out of ~ Range	Attempted to enter a value beyond the allowable range.
Need APS	A setpoint start is initiated and the setpoint is based on quantity and no piece weight has been established (start will not occur).
Edit Disbl	Unable to edit the time and date.

4.2 Miscellaneous Errors

Error Code	Description
T.X.YYYY	If catastrophic errors occur in the software, a trap error may occur and freeze the display with address information (X = bank number and YYYY = the address of the trap error. Press any key five seconds after viewing message to reboot the unit).

4.3 Hardware Errors

Error Code	Description
Code00	An EPROM problem detected during power up.
A-D ~ Bad! **or** **Code17**	Problem with A/D chip detected. Disconnect any options installed and re-power the unit. Options are connected to the same serial lines as the A/D so they may prevent it from working properly.
Deflt ~ A-D	Bad A/D calibration values.
Re- ~ Boot!	EEPROM data could not be read. Attempting power-up reset.
Code21~E2rd	Error while reading data from EEPROM.
Code21~E2sd	Error while saving data to EEPROM.
Deflt ~ Setup	An error occurred when reading setup data from the EEPROM during power-up. All parameters are set to factory default.
Ch.XXXX	A checksum error occurred during power-up. All annunciators are lit. The EPROM integrity test failed or is improperly seated.
E2 ~ Full!	The EEPROM setup exceeds the memory capacity.
NoSpc ~ Free!	The current setup exceeds the setup RAM capacity.

4.4 Communication Errors

Error Code	Description
Par-Er	The selected parity does not match that of the connected device.
Buf-Er	The receive buffers capacity was exceeded. This indicates a handshaking problem.
Bit-Er	The stop bit of a received character did not occur when expected.
Trans~Hold1	Data transmission is inhibited due to a deasserted handshake on communication port 1. Press [ZERO] or [CLR] to abort transmission.
Trans~Hold2	Data transmission is inhibited due to a deasserted handshake on communication port 2. Press [ZERO] or [CLR] to abort transmission.
Error~BaudX	The X being either comm port 1 or comm. port 2. The baud rate selected is too high for the microprocessor rate.

Avery Weigh-Tronix

Avery Weigh-Tronix USA
1000 Armstrong Dr.
Fairmont MN 56031 USA
Tel:507-238-4461
Fax:507-238-4195
Email: usinfo@awtxglobal.com
www.wtxweb.com

Avery Weigh-Tronix UK
Foundry Lane,
Smethwick, West Midlands,
England B66 2LP
Tel:+44 (0) 8453 66 77 88
Fax: +44 (0)121 224 8183
Email: info@awtxglobal.com
www.averyweigh-tronix.com